



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>North Reference:</b>	True
<b>Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		NWNE S6-T1N-R64W (Flanigan)			
Site Position:		Northing:	1,275,832.11 ft	Latitude:	40.086970
From:	Lat/Long	Easting:	3,254,152.25 ft	Longitude:	-104.591660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.59 °

Well	Flanigan 2B-6H					
Well Position	+N/-S	0.0 ft	Northing:	1,275,726.34 ft	Latitude:	40.086740
	+E/-W	0.0 ft	Easting:	3,251,998.78 ft	Longitude:	-104.599360
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,936.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	IGRF2010	4/25/2012	8.63	66.79	52,893

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	180.00

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	12.00	66.00	1,497.8	12.7	28.6	4.00	4.00	0.00	66.00	
4,232.0	12.00	66.00	4,170.1	243.8	547.5	0.00	0.00	0.00	0.00	
4,532.0	0.00	0.00	4,467.9	256.5	576.1	4.00	-4.00	0.00	180.00	
6,496.1	0.00	0.00	6,432.0	256.5	576.1	0.00	0.00	0.00	0.00	
7,396.1	90.00	180.00	7,005.0	-316.5	576.1	10.00	10.00	0.00	180.00	
11,542.0	90.00	180.00	7,005.0	-4,462.4	576.5	0.00	0.00	0.00	0.00	Flanigan 2B-6H PBHL

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<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>North Reference:</b>	True
<b>Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1200'
1,300.0	4.00	66.00	1,299.9	1.4	3.2	-1.4	4.00	4.00	
1,400.0	8.00	66.00	1,399.4	5.7	12.7	-5.7	4.00	4.00	
1,500.0	12.00	66.00	1,497.8	12.7	28.6	-12.7	4.00	4.00	EOB; Inc=12°
1,600.0	12.00	66.00	1,595.6	21.2	47.6	-21.2	0.00	0.00	
1,700.0	12.00	66.00	1,693.4	29.6	66.6	-29.6	0.00	0.00	
1,800.0	12.00	66.00	1,791.3	38.1	85.6	-38.1	0.00	0.00	
1,900.0	12.00	66.00	1,889.1	46.6	104.6	-46.6	0.00	0.00	
2,000.0	12.00	66.00	1,986.9	55.0	123.6	-55.0	0.00	0.00	
2,100.0	12.00	66.00	2,084.7	63.5	142.6	-63.5	0.00	0.00	
2,200.0	12.00	66.00	2,182.5	71.9	161.6	-71.9	0.00	0.00	
2,300.0	12.00	66.00	2,280.3	80.4	180.5	-80.4	0.00	0.00	
2,400.0	12.00	66.00	2,378.1	88.8	199.5	-88.8	0.00	0.00	
2,500.0	12.00	66.00	2,476.0	97.3	218.5	-97.3	0.00	0.00	
2,600.0	12.00	66.00	2,573.8	105.8	237.5	-105.8	0.00	0.00	
2,700.0	12.00	66.00	2,671.6	114.2	256.5	-114.2	0.00	0.00	
2,800.0	12.00	66.00	2,769.4	122.7	275.5	-122.7	0.00	0.00	
2,900.0	12.00	66.00	2,867.2	131.1	294.5	-131.1	0.00	0.00	
3,000.0	12.00	66.00	2,965.0	139.6	313.5	-139.6	0.00	0.00	
3,100.0	12.00	66.00	3,062.8	148.0	332.5	-148.0	0.00	0.00	
3,200.0	12.00	66.00	3,160.7	156.5	351.5	-156.5	0.00	0.00	
3,300.0	12.00	66.00	3,258.5	164.9	370.5	-164.9	0.00	0.00	
3,400.0	12.00	66.00	3,356.3	173.4	389.5	-173.4	0.00	0.00	
3,500.0	12.00	66.00	3,454.1	181.9	408.5	-181.9	0.00	0.00	
3,600.0	12.00	66.00	3,551.9	190.3	427.5	-190.3	0.00	0.00	
3,700.0	12.00	66.00	3,649.7	198.8	446.5	-198.8	0.00	0.00	
3,800.0	12.00	66.00	3,747.6	207.2	465.4	-207.2	0.00	0.00	
3,900.0	12.00	66.00	3,845.4	215.7	484.4	-215.7	0.00	0.00	
4,000.0	12.00	66.00	3,943.2	224.1	503.4	-224.1	0.00	0.00	
4,100.0	12.00	66.00	4,041.0	232.6	522.4	-232.6	0.00	0.00	
4,200.0	12.00	66.00	4,138.8	241.1	541.4	-241.1	0.00	0.00	
4,232.0	12.00	66.00	4,170.1	243.8	547.5	-243.8	0.00	0.00	Start Drop -4.00
4,300.0	9.28	66.00	4,236.9	248.9	559.0	-248.9	4.00	-4.00	
4,400.0	5.28	66.00	4,336.1	254.0	570.5	-254.0	4.00	-4.00	
4,420.0	4.48	66.00	4,356.0	254.7	572.1	-254.7	4.00	-4.00	Sussex
4,500.0	1.28	66.00	4,435.9	256.3	575.8	-256.3	4.00	-4.00	
4,532.0	0.00	0.00	4,467.9	256.5	576.1	-256.5	4.00	-4.00	EOD; Inc=0°
4,600.0	0.00	0.00	4,535.9	256.5	576.1	-256.5	0.00	0.00	
4,669.1	0.00	0.00	4,605.0	256.5	576.1	-256.5	0.00	0.00	Sussex Marker
4,700.0	0.00	0.00	4,635.9	256.5	576.1	-256.5	0.00	0.00	

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<b>Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	0.00	0.00	4,735.9	256.5	576.1	-256.5	0.00	0.00	
4,900.0	0.00	0.00	4,835.9	256.5	576.1	-256.5	0.00	0.00	
4,993.1	0.00	0.00	4,929.0	256.5	576.1	-256.5	0.00	0.00	Shannon
5,000.0	0.00	0.00	4,935.9	256.5	576.1	-256.5	0.00	0.00	
5,100.0	0.00	0.00	5,035.9	256.5	576.1	-256.5	0.00	0.00	
5,200.0	0.00	0.00	5,135.9	256.5	576.1	-256.5	0.00	0.00	
5,300.0	0.00	0.00	5,235.9	256.5	576.1	-256.5	0.00	0.00	
5,400.0	0.00	0.00	5,335.9	256.5	576.1	-256.5	0.00	0.00	
5,500.0	0.00	0.00	5,435.9	256.5	576.1	-256.5	0.00	0.00	
5,600.0	0.00	0.00	5,535.9	256.5	576.1	-256.5	0.00	0.00	
5,700.0	0.00	0.00	5,635.9	256.5	576.1	-256.5	0.00	0.00	
5,800.0	0.00	0.00	5,735.9	256.5	576.1	-256.5	0.00	0.00	
5,900.0	0.00	0.00	5,835.9	256.5	576.1	-256.5	0.00	0.00	
6,000.0	0.00	0.00	5,935.9	256.5	576.1	-256.5	0.00	0.00	
6,100.0	0.00	0.00	6,035.9	256.5	576.1	-256.5	0.00	0.00	
6,148.1	0.00	0.00	6,084.0	256.5	576.1	-256.5	0.00	0.00	Teepee Buttes
6,200.0	0.00	0.00	6,135.9	256.5	576.1	-256.5	0.00	0.00	
6,300.0	0.00	0.00	6,235.9	256.5	576.1	-256.5	0.00	0.00	
6,400.0	0.00	0.00	6,335.9	256.5	576.1	-256.5	0.00	0.00	
6,496.1	0.00	0.00	6,432.0	256.5	576.1	-256.5	0.00	0.00	Start 10° build @ 6496' MD
6,500.0	0.39	180.00	6,435.9	256.5	576.1	-256.5	10.00	10.00	
6,600.0	10.39	180.00	6,535.4	247.1	576.1	-247.1	10.00	10.00	
6,700.0	20.39	180.00	6,631.6	220.6	576.1	-220.6	10.00	10.00	
6,800.0	30.39	180.00	6,721.9	177.8	576.1	-177.8	10.00	10.00	
6,900.0	40.39	180.00	6,803.3	119.9	576.1	-119.9	10.00	10.00	
6,954.4	45.83	180.00	6,843.0	82.8	576.1	-82.8	10.00	10.00	Sharon Springs
6,990.0	49.39	180.00	6,867.0	56.5	576.1	-56.5	10.00	10.00	Niobrara
7,000.0	50.39	180.00	6,873.4	48.8	576.1	-48.8	10.00	10.00	
7,052.5	55.64	180.00	6,905.0	6.9	576.1	-6.9	10.00	10.00	B Chalk
7,100.0	60.39	180.00	6,930.2	-33.4	576.1	33.4	10.00	10.00	
7,200.0	70.39	180.00	6,971.8	-124.2	576.1	124.2	10.00	10.00	
7,300.0	80.39	180.00	6,997.0	-220.8	576.1	220.8	10.00	10.00	
7,396.1	90.00	180.00	7,005.0	-316.4	576.1	316.4	10.00	10.00	Landing Pt @ 7396' MD; 90° - ICP
7,400.0	90.00	180.00	7,005.0	-320.3	576.1	320.3	0.05	0.05	
7,500.0	90.00	180.00	7,005.0	-420.3	576.2	420.3	0.00	0.00	
7,600.0	90.00	180.00	7,005.0	-520.3	576.2	520.3	0.00	0.00	
7,700.0	90.00	180.00	7,005.0	-620.3	576.2	620.3	0.00	0.00	
7,800.0	90.00	180.00	7,005.0	-720.3	576.2	720.3	0.00	0.00	
7,900.0	90.00	180.00	7,005.0	-820.3	576.2	820.3	0.00	0.00	
8,000.0	90.00	180.00	7,005.0	-920.3	576.2	920.3	0.00	0.00	
8,100.0	90.00	180.00	7,005.0	-1,020.3	576.2	1,020.3	0.00	0.00	
8,200.0	90.00	180.00	7,005.0	-1,120.3	576.2	1,120.3	0.00	0.00	
8,300.0	90.00	180.00	7,005.0	-1,220.3	576.2	1,220.3	0.00	0.00	
8,400.0	90.00	180.00	7,005.0	-1,320.3	576.2	1,320.3	0.00	0.00	
8,500.0	90.00	180.00	7,005.0	-1,420.3	576.2	1,420.3	0.00	0.00	
8,600.0	90.00	180.00	7,005.0	-1,520.3	576.2	1,520.3	0.00	0.00	
8,700.0	90.00	180.00	7,005.0	-1,620.3	576.3	1,620.3	0.00	0.00	
8,800.0	90.00	180.00	7,005.0	-1,720.3	576.3	1,720.3	0.00	0.00	
8,900.0	90.00	180.00	7,005.0	-1,820.3	576.3	1,820.3	0.00	0.00	
9,000.0	90.00	180.00	7,005.0	-1,920.3	576.3	1,920.3	0.00	0.00	
9,100.0	90.00	180.00	7,005.0	-2,020.3	576.3	2,020.3	0.00	0.00	
9,200.0	90.00	180.00	7,005.0	-2,120.3	576.3	2,120.3	0.00	0.00	

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<b>Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	180.00	7,005.0	-2,220.3	576.3	2,220.3	0.00	0.00	
9,400.0	90.00	180.00	7,005.0	-2,320.3	576.3	2,320.3	0.00	0.00	
9,500.0	90.00	180.00	7,005.0	-2,420.3	576.3	2,420.3	0.00	0.00	
9,600.0	90.00	180.00	7,005.0	-2,520.3	576.3	2,520.3	0.00	0.00	
9,700.0	90.00	180.00	7,005.0	-2,620.3	576.3	2,620.3	0.00	0.00	
9,800.0	90.00	180.00	7,005.0	-2,720.3	576.3	2,720.3	0.00	0.00	
9,900.0	90.00	180.00	7,005.0	-2,820.3	576.4	2,820.3	0.00	0.00	
10,000.0	90.00	180.00	7,005.0	-2,920.3	576.4	2,920.3	0.00	0.00	
10,100.0	90.00	180.00	7,005.0	-3,020.3	576.4	3,020.3	0.00	0.00	
10,200.0	90.00	180.00	7,005.0	-3,120.3	576.4	3,120.3	0.00	0.00	
10,300.0	90.00	180.00	7,005.0	-3,220.3	576.4	3,220.3	0.00	0.00	
10,400.0	90.00	180.00	7,005.0	-3,320.3	576.4	3,320.3	0.00	0.00	
10,500.0	90.00	180.00	7,005.0	-3,420.3	576.4	3,420.3	0.00	0.00	
10,600.0	90.00	180.00	7,005.0	-3,520.3	576.4	3,520.3	0.00	0.00	
10,700.0	90.00	180.00	7,005.0	-3,620.3	576.4	3,620.3	0.00	0.00	
10,800.0	90.00	180.00	7,005.0	-3,720.3	576.4	3,720.3	0.00	0.00	
10,900.0	90.00	180.00	7,005.0	-3,820.3	576.4	3,820.3	0.00	0.00	
11,000.0	90.00	180.00	7,005.0	-3,920.3	576.4	3,920.3	0.00	0.00	
11,100.0	90.00	180.00	7,005.0	-4,020.3	576.5	4,020.3	0.00	0.00	
11,200.0	90.00	180.00	7,005.0	-4,120.3	576.5	4,120.3	0.00	0.00	
11,300.0	90.00	180.00	7,005.0	-4,220.3	576.5	4,220.3	0.00	0.00	
11,400.0	90.00	180.00	7,005.0	-4,320.3	576.5	4,320.3	0.00	0.00	
11,500.0	90.00	180.00	7,005.0	-4,420.3	576.5	4,420.3	0.00	0.00	
11,542.0	90.00	180.00	7,005.0	-4,462.4	576.5	4,462.4	0.00	0.00	TD at 11542.0 - Flanigan 2B-6H PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Flanigan 2B-6H PBHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,005.0	-4,462.4	576.5	1,271,270.04	3,252,620.56	40.074490	-104.597300

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
7,396.1	7,005.0	ICP	0.000	0.000	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>North Reference:</b>	True
<b>Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,420.0	4,356.0	Sussex				
4,669.1	4,605.0	Sussex Marker				
4,993.1	4,929.0	Shannon				
6,148.1	6,084.0	Teepee Buttes				
6,954.4	6,843.0	Sharon Springs				
6,990.0	6,867.0	Niobrara				
7,052.5	6,905.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.0	1,200.0	0.0	0.0	KOP @ 1200'	
1,500.0	1,497.8	12.7	28.6	EOB; Inc=12°	
4,232.0	4,170.1	243.8	547.5	Start Drop -4.00	
4,532.0	4,467.9	256.5	576.1	EOD; Inc=0°	
6,496.1	6,432.0	256.5	576.1	Start 10° build @ 6496' MD	
7,396.1	7,005.0	-316.5	576.1	Landing Pt @ 7396' MD; 90°	
11,542.0	7,005.0	-4,462.4	576.5	TD at 11542.0	

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**NWNE S6-T1N-R64W (Flanigan)**

**Flanigan 2B-6H**

**Hz**

**Plan #1**

## **Anticollision Report**

**25 April, 2012**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b>	4/25/2012		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,541.8	Plan #1 (Hz)	MWD	Geolink MWD

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
NWNE S6-T1N-R64W (Flanigan)						
Flanigan #1 (Existing) - Existing - Existing						Out of range
Flanigan 1A-6H - Hz - Plan #1	7,349.8	7,412.9	721.7	693.4	25.526	CC
Flanigan 1A-6H - Hz - Plan #1	11,542.0	11,596.4	721.8	559.3	4.442	ES, SF
Flanigan 1B-6H - Hz - Plan #1						Out of range
Flanigan 1C-6H - Hz - Plan #1						Out of range
Flanigan 1D-6H - Hz - Plan #1						Out of range
Flanigan 2A-6H - Hz - Plan #1	1,200.0	1,200.0	28.0	23.8	6.753	CC, ES
Flanigan 2A-6H - Hz - Plan #1	11,542.0	11,495.0	702.4	540.8	4.345	SF



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NWNE S6-T1N-R64W (Flanigan) - Flanigan 1A-6H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,700.0	5,635.9	5,975.0	5,907.7	15.0	15.2	90.28	251.8	1,535.9	982.7	961.0	21.73	45.218		
5,800.0	5,735.9	6,072.5	6,002.8	15.1	15.6	89.93	257.7	1,515.1	961.3	939.2	22.08	43.544		
5,900.0	5,835.9	6,170.0	6,097.8	15.2	16.0	89.55	263.7	1,494.2	939.9	917.5	22.42	41.915		
6,000.0	5,935.9	6,267.5	6,192.9	15.3	16.4	89.16	269.6	1,473.4	918.5	895.8	22.77	40.331		
6,100.0	6,035.9	6,365.0	6,287.9	15.5	16.8	88.76	275.5	1,452.5	897.2	874.1	23.13	38.790		
6,200.0	6,135.9	6,462.5	6,383.0	15.6	17.2	88.33	281.4	1,431.7	876.0	852.5	23.49	37.289		
6,300.0	6,235.9	6,563.5	6,481.6	15.7	17.6	88.18	283.1	1,410.1	854.6	830.8	23.81	35.886		
6,400.0	6,335.9	6,663.5	6,578.0	15.8	18.0	89.19	267.9	1,388.9	832.8	808.8	24.04	34.649		
6,500.0	6,435.9	6,755.8	6,663.4	15.9	18.2	-88.81	239.0	1,370.2	811.6	787.3	24.24	33.483		
6,600.0	6,535.4	6,841.0	6,737.4	16.0	18.4	-88.46	200.0	1,354.0	792.0	767.6	24.34	32.533		
6,700.0	6,631.6	6,922.7	6,802.3	16.0	18.6	-88.08	152.5	1,339.7	774.5	750.1	24.40	31.742		
6,800.0	6,721.9	7,000.0	6,857.0	15.9	18.9	-87.70	99.4	1,327.8	759.4	734.9	24.46	31.047		
6,900.0	6,803.3	7,079.1	6,905.3	15.9	19.1	-87.21	37.7	1,317.2	746.7	722.1	24.63	30.316		
7,000.0	6,873.4	7,150.0	6,941.1	15.9	19.4	-86.83	-22.9	1,309.3	736.7	711.8	24.93	29.547		
7,100.0	6,930.2	7,229.4	6,972.3	16.1	19.7	-86.28	-95.6	1,302.5	729.3	703.7	25.54	28.553		
7,200.0	6,971.8	7,300.0	6,991.4	16.4	20.1	-85.87	-163.3	1,298.3	724.4	698.0	26.37	27.470		
7,300.0	6,997.0	7,376.5	7,002.9	16.8	20.6	-85.44	-238.9	1,295.8	722.0	694.4	27.57	26.191		
7,349.8	7,003.2	7,412.9	7,004.8	17.1	20.8	-85.26	-275.2	1,295.4	721.7	693.4	28.27	25.526 CC		
7,400.0	7,005.0	7,458.0	7,005.0	17.5	21.1	-85.15	-320.3	1,295.3	721.8	692.7	29.10	24.801		
7,500.0	7,005.0	7,558.0	7,005.0	18.3	21.9	-85.15	-420.3	1,295.4	721.8	690.6	31.16	23.166		
7,600.0	7,005.0	7,658.0	7,005.0	19.2	22.7	-85.15	-520.3	1,295.4	721.8	688.3	33.44	21.582		
7,700.0	7,005.0	7,758.0	7,005.0	20.2	23.7	-85.15	-620.3	1,295.4	721.8	685.9	35.93	20.090		
7,800.0	7,005.0	7,858.0	7,005.0	21.3	24.8	-85.15	-720.3	1,295.4	721.8	683.2	38.57	18.715		
7,900.0	7,005.0	7,958.0	7,005.0	22.5	25.9	-85.15	-820.3	1,295.4	721.8	680.4	41.34	17.462		
8,000.0	7,005.0	8,058.0	7,005.0	23.8	27.1	-85.15	-920.3	1,295.4	721.8	677.6	44.21	16.327		
8,100.0	7,005.0	8,158.0	7,005.0	25.2	28.4	-85.15	-1,020.3	1,295.4	721.8	674.6	47.16	15.304		
8,200.0	7,005.0	8,258.0	7,005.0	26.5	29.7	-85.15	-1,120.3	1,295.4	721.8	671.6	50.19	14.381		
8,300.0	7,005.0	8,358.0	7,005.0	28.0	31.1	-85.15	-1,220.3	1,295.4	721.8	668.5	53.27	13.549		
8,400.0	7,005.0	8,458.0	7,005.0	29.4	32.5	-85.15	-1,320.3	1,295.4	721.8	665.4	56.40	12.797		
8,500.0	7,005.0	8,558.0	7,005.0	30.9	33.9	-85.15	-1,420.3	1,295.4	721.8	662.2	59.58	12.115		
8,600.0	7,005.0	8,658.0	7,005.0	32.4	35.4	-85.15	-1,520.3	1,295.4	721.8	659.0	62.78	11.497		
8,700.0	7,005.0	8,758.0	7,005.0	34.0	36.8	-85.15	-1,620.3	1,295.5	721.8	655.8	66.02	10.933		
8,800.0	7,005.0	8,858.0	7,005.0	35.6	38.4	-85.15	-1,720.3	1,295.5	721.8	652.5	69.28	10.418		
8,900.0	7,005.0	8,958.0	7,005.0	37.1	39.9	-85.15	-1,820.3	1,295.5	721.8	649.2	72.56	9.947		
9,000.0	7,005.0	9,058.0	7,005.0	38.7	41.4	-85.15	-1,920.3	1,295.5	721.8	645.9	75.87	9.514		
9,100.0	7,005.0	9,158.0	7,005.0	40.3	43.0	-85.15	-2,020.3	1,295.5	721.8	642.6	79.18	9.115		
9,200.0	7,005.0	9,258.0	7,005.0	41.9	44.6	-85.15	-2,120.3	1,295.5	721.8	639.3	82.52	8.747		
9,300.0	7,005.0	9,358.0	7,005.0	43.6	46.2	-85.15	-2,220.3	1,295.5	721.8	635.9	85.86	8.406		
9,400.0	7,005.0	9,458.0	7,005.0	45.2	47.8	-85.15	-2,320.3	1,295.5	721.8	632.6	89.22	8.090		
9,500.0	7,005.0	9,558.0	7,005.0	46.9	49.4	-85.15	-2,420.3	1,295.5	721.8	629.2	92.59	7.796		
9,600.0	7,005.0	9,658.0	7,005.0	48.5	51.0	-85.15	-2,520.3	1,295.5	721.8	625.8	95.97	7.521		
9,700.0	7,005.0	9,758.0	7,005.0	50.2	52.6	-85.15	-2,620.3	1,295.5	721.8	622.4	99.35	7.265		
9,800.0	7,005.0	9,858.0	7,005.0	51.8	54.3	-85.15	-2,720.3	1,295.5	721.8	619.0	102.75	7.025		
9,900.0	7,005.0	9,958.0	7,005.0	53.5	55.9	-85.15	-2,820.3	1,295.6	721.8	615.6	106.14	6.800		
10,000.0	7,005.0	10,058.0	7,005.0	55.2	57.6	-85.15	-2,920.3	1,295.6	721.8	612.2	109.55	6.589		
10,100.0	7,005.0	10,158.0	7,005.0	56.9	59.2	-85.15	-3,020.3	1,295.6	721.8	608.8	112.96	6.390		
10,200.0	7,005.0	10,258.0	7,005.0	58.6	60.9	-85.15	-3,120.3	1,295.6	721.8	605.4	116.38	6.202		
10,300.0	7,005.0	10,358.0	7,005.0	60.3	62.5	-85.15	-3,220.3	1,295.6	721.8	602.0	119.80	6.025		
10,400.0	7,005.0	10,458.0	7,005.0	61.9	64.2	-85.15	-3,320.3	1,295.6	721.8	598.6	123.22	5.858		
10,500.0	7,005.0	10,558.0	7,005.0	63.6	65.9	-85.15	-3,420.3	1,295.6	721.8	595.1	126.65	5.699		
10,600.0	7,005.0	10,658.0	7,005.0	65.3	67.6	-85.15	-3,520.3	1,295.6	721.8	591.7	130.08	5.549		
10,700.0	7,005.0	10,758.0	7,005.0	67.0	69.3	-85.15	-3,620.3	1,295.6	721.8	588.3	133.52	5.406		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:		0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
10,800.0	7,005.0	10,858.0	7,005.0	68.8	71.0	-85.15	-3,720.3	1,295.6	721.8	584.8	136.96	5.270				
10,900.0	7,005.0	10,958.0	7,005.0	70.5	72.6	-85.15	-3,820.3	1,295.6	721.8	581.4	140.40	5.141				
11,000.0	7,005.0	11,058.0	7,005.0	72.2	74.3	-85.15	-3,920.3	1,295.7	721.8	577.9	143.84	5.018				
11,100.0	7,005.0	11,158.0	7,005.0	73.9	76.0	-85.15	-4,020.3	1,295.7	721.8	574.5	147.29	4.900				
11,200.0	7,005.0	11,258.0	7,005.0	75.6	77.7	-85.15	-4,120.3	1,295.7	721.8	571.1	150.74	4.788				
11,300.0	7,005.0	11,358.0	7,005.0	77.3	79.4	-85.15	-4,220.3	1,295.7	721.8	567.6	154.19	4.681				
11,400.0	7,005.0	11,458.0	7,005.0	79.0	81.1	-85.15	-4,320.3	1,295.7	721.8	564.1	157.64	4.579				
11,500.0	7,005.0	11,558.0	7,005.0	80.8	82.8	-85.15	-4,420.3	1,295.7	721.8	560.7	161.10	4.480				
11,521.1	7,005.0	11,579.1	7,005.0	81.1	83.2	-85.15	-4,441.4	1,295.7	721.8	560.0	161.83	4.460				
11,542.0	7,005.0	11,596.4	7,005.0	81.5	83.5	-85.15	-4,458.7	1,295.7	721.8	559.3	162.49	4.442 ES, SF				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NWNE S6-T1N-R64W (Flanigan) - Flanigan 2A-6H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-28.0	28.0	27.7	0.30	92.133		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-28.0	28.0	27.3	0.65	42.864		
300.0	300.0	300.0	300.0	0.5	0.5	-89.98	0.0	-28.0	28.0	27.0	1.00	27.929		
400.0	400.0	400.0	400.0	0.7	0.7	-89.98	0.0	-28.0	28.0	26.6	1.35	20.712		
500.0	500.0	500.0	500.0	0.8	0.8	-89.98	0.0	-28.0	28.0	26.3	1.70	16.459		
600.0	600.0	600.0	600.0	1.0	1.0	-89.98	0.0	-28.0	28.0	25.9	2.05	13.655		
700.0	700.0	700.0	700.0	1.2	1.2	-89.98	0.0	-28.0	28.0	25.6	2.40	11.668		
800.0	800.0	800.0	800.0	1.4	1.4	-89.98	0.0	-28.0	28.0	25.2	2.75	10.185		
900.0	900.0	900.0	900.0	1.5	1.5	-89.98	0.0	-28.0	28.0	24.9	3.10	9.037		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-89.98	0.0	-28.0	28.0	24.5	3.45	8.121		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-89.98	0.0	-28.0	28.0	24.2	3.79	7.374		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	-89.98	0.0	-28.0	28.0	23.8	4.14	6.753 CC, ES		
1,300.0	1,299.9	1,299.1	1,299.0	2.2	2.2	-152.76	3.2	-29.2	32.5	28.0	4.49	7.237		
1,400.0	1,399.4	1,396.8	1,396.2	2.4	2.4	-146.86	12.6	-32.9	46.3	41.4	4.84	9.560		
1,500.0	1,497.8	1,491.9	1,489.9	2.7	2.7	-142.12	27.6	-38.8	69.5	64.3	5.23	13.287		
1,600.0	1,595.6	1,587.5	1,583.4	3.0	2.9	-139.53	46.1	-46.1	97.7	92.0	5.68	17.194		
1,700.0	1,693.4	1,683.4	1,677.2	3.3	3.2	-138.08	64.6	-53.4	126.0	119.9	6.16	20.452		
1,800.0	1,791.3	1,779.2	1,770.9	3.6	3.5	-137.17	83.1	-60.7	154.4	147.8	6.66	23.170		
1,900.0	1,889.1	1,875.1	1,864.7	4.0	3.9	-136.54	101.7	-68.0	182.8	175.6	7.18	25.450		
2,000.0	1,986.9	1,971.0	1,958.5	4.3	4.2	-136.08	120.2	-75.3	211.2	203.5	7.72	27.374		
2,100.0	2,084.7	2,066.8	2,052.3	4.7	4.5	-135.73	138.8	-82.6	239.7	231.4	8.26	29.010		
2,200.0	2,182.5	2,162.7	2,146.0	5.1	4.9	-135.45	157.3	-89.9	268.1	259.3	8.82	30.413		
2,300.0	2,280.3	2,258.6	2,239.8	5.4	5.2	-135.23	175.9	-97.3	296.5	287.2	9.38	31.625		
2,400.0	2,378.1	2,354.4	2,333.6	5.8	5.6	-135.04	194.4	-104.6	325.0	315.0	9.94	32.680		
2,500.0	2,476.0	2,450.3	2,427.3	6.2	6.0	-134.89	213.0	-111.9	353.4	342.9	10.52	33.604		
2,600.0	2,573.8	2,560.3	2,535.4	6.6	6.3	-135.00	232.2	-119.4	380.6	369.5	11.10	34.307		
2,700.0	2,671.6	2,678.8	2,653.1	7.0	6.6	-136.10	244.5	-124.3	402.9	391.3	11.62	34.682		
2,800.0	2,769.4	2,795.2	2,769.4	7.4	6.7	-138.04	247.8	-125.6	420.2	408.1	12.06	34.850		
2,900.0	2,867.2	2,893.0	2,867.2	7.8	6.9	-139.85	247.8	-125.6	436.0	423.6	12.45	35.024		
3,000.0	2,965.0	2,990.8	2,965.0	8.2	7.0	-141.54	247.8	-125.6	452.2	439.4	12.83	35.250		
3,100.0	3,062.8	3,088.6	3,062.8	8.6	7.1	-143.10	247.8	-125.6	468.8	455.6	13.20	35.519		
3,200.0	3,160.7	3,186.5	3,160.7	9.0	7.3	-144.57	247.8	-125.6	485.8	472.2	13.56	35.819		
3,300.0	3,258.5	3,284.3	3,258.5	9.4	7.4	-145.93	247.8	-125.6	503.0	489.0	13.91	36.145		
3,400.0	3,356.3	3,382.1	3,356.3	9.7	7.5	-147.20	247.8	-125.6	520.4	506.2	14.26	36.489		
3,500.0	3,454.1	3,479.9	3,454.1	10.1	7.6	-148.40	247.8	-125.6	538.1	523.5	14.60	36.847		
3,600.0	3,551.9	3,577.7	3,551.9	10.5	7.8	-149.51	247.8	-125.6	556.0	541.1	14.94	37.215		
3,700.0	3,649.7	3,675.5	3,649.7	11.0	7.9	-150.56	247.8	-125.6	574.2	558.9	15.27	37.588		
3,800.0	3,747.6	3,773.3	3,747.6	11.4	8.1	-151.54	247.8	-125.6	592.4	576.8	15.60	37.965		
3,900.0	3,845.4	3,871.2	3,845.4	11.8	8.2	-152.47	247.8	-125.6	610.9	595.0	15.93	38.343		
4,000.0	3,943.2	3,969.0	3,943.2	12.2	8.3	-153.34	247.8	-125.6	629.5	613.2	16.26	38.721		
4,100.0	4,041.0	4,066.8	4,041.0	12.6	8.5	-154.16	247.8	-125.6	648.2	631.6	16.58	39.096		
4,200.0	4,138.8	4,164.6	4,138.8	13.0	8.6	-154.94	247.8	-125.6	667.1	650.2	16.90	39.467		
4,300.0	4,236.9	4,262.7	4,236.9	13.3	8.8	-155.81	247.8	-125.6	686.4	667.3	17.26	39.661		
4,400.0	4,336.1	4,361.9	4,336.1	13.6	8.9	-156.42	247.8	-125.6	696.2	678.6	17.60	39.556		
4,500.0	4,435.9	4,461.7	4,435.9	13.7	9.1	-156.69	247.8	-125.6	701.4	683.5	17.90	39.193		
4,600.0	4,535.9	4,561.7	4,535.9	13.8	9.2	-90.71	247.8	-125.6	701.8	683.6	18.19	38.573		
4,700.0	4,635.9	4,661.7	4,635.9	13.9	9.4	-90.71	247.8	-125.6	701.8	683.3	18.50	37.933		
4,800.0	4,735.9	4,761.7	4,735.9	14.0	9.5	-90.71	247.8	-125.6	701.8	682.9	18.81	37.312		
4,900.0	4,835.9	4,861.7	4,835.9	14.1	9.7	-90.71	247.8	-125.6	701.8	682.6	19.12	36.708		
5,000.0	4,935.9	4,961.7	4,935.9	14.2	9.8	-90.71	247.8	-125.6	701.8	682.3	19.43	36.120		
5,100.0	5,035.9	5,061.7	5,035.9	14.3	10.0	-90.71	247.8	-125.6	701.8	682.0	19.74	35.549		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NWNE S6-T1N-R64W (Flanigan) - Flanigan 2A-6H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,135.9	5,161.7	5,135.9	14.4	10.1	-90.71	247.8	-125.6	701.8	681.7	20.05	34.993		
5,300.0	5,235.9	5,261.7	5,235.9	14.5	10.3	-90.71	247.8	-125.6	701.8	681.4	20.37	34.453		
5,400.0	5,335.9	5,361.7	5,335.9	14.6	10.4	-90.71	247.8	-125.6	701.8	681.1	20.68	33.927		
5,500.0	5,435.9	5,461.7	5,435.9	14.7	10.6	-90.71	247.8	-125.6	701.8	680.7	21.00	33.415		
5,600.0	5,535.9	5,561.7	5,535.9	14.9	10.8	-90.71	247.8	-125.6	701.8	680.4	21.32	32.917		
5,700.0	5,635.9	5,661.7	5,635.9	15.0	10.9	-90.71	247.8	-125.6	701.8	680.1	21.64	32.432		
5,800.0	5,735.9	5,761.7	5,735.9	15.1	11.1	-90.71	247.8	-125.6	701.8	679.8	21.96	31.960		
5,900.0	5,835.9	5,861.7	5,835.9	15.2	11.2	-90.71	247.8	-125.6	701.8	679.5	22.28	31.501		
6,000.0	5,935.9	5,961.7	5,935.9	15.3	11.4	-90.71	247.8	-125.6	701.8	679.2	22.60	31.053		
6,100.0	6,035.9	6,061.7	6,035.9	15.5	11.5	-90.71	247.8	-125.6	701.8	678.8	22.92	30.616		
6,200.0	6,135.9	6,161.7	6,135.9	15.6	11.7	-90.71	247.8	-125.6	701.8	678.5	23.24	30.191		
6,300.0	6,235.9	6,261.7	6,235.9	15.7	11.9	-90.71	247.8	-125.6	701.8	678.2	23.57	29.776		
6,400.0	6,335.9	6,361.7	6,335.9	15.8	12.0	-90.71	247.8	-125.6	701.8	677.9	23.89	29.372		
6,500.0	6,435.9	6,461.7	6,435.9	15.9	12.2	89.30	247.8	-125.6	701.8	677.5	24.21	28.980		
6,600.0	6,535.4	6,560.2	6,533.8	16.0	12.3	89.31	238.7	-125.6	701.8	677.4	24.37	28.790		
6,700.0	6,631.6	6,658.7	6,628.8	16.0	12.3	89.34	213.0	-125.6	701.7	677.4	24.37	28.795		
6,800.0	6,721.9	6,757.4	6,718.1	15.9	12.2	89.39	171.3	-125.6	701.7	677.5	24.28	28.897		
6,846.8	6,761.2	6,803.5	6,757.2	15.9	12.2	89.42	146.7	-125.6	701.7	677.5	24.25	28.934		
6,900.0	6,803.3	6,856.1	6,799.0	15.9	12.2	89.46	114.9	-125.6	701.7	677.5	24.23	28.962		
7,000.0	6,873.4	6,955.1	6,869.2	15.9	12.2	89.55	45.3	-125.6	701.8	677.4	24.34	28.830		
7,100.0	6,930.2	7,054.2	6,926.4	16.1	12.4	89.65	-35.5	-125.6	701.8	677.0	24.75	28.358		
7,200.0	6,971.8	7,153.5	6,969.0	16.4	12.8	89.76	-125.1	-125.6	701.8	676.2	25.54	27.476		
7,300.0	6,997.0	7,253.1	6,995.5	16.8	13.4	89.88	-221.0	-125.6	701.8	675.0	26.76	26.222		
7,400.0	7,005.0	7,353.0	7,005.0	17.5	14.3	90.00	-320.3	-125.6	701.8	673.4	28.38	24.727		
7,500.0	7,005.0	7,453.0	7,005.0	18.3	15.2	90.00	-420.3	-125.6	701.8	671.5	30.34	23.131		
7,600.0	7,005.0	7,553.0	7,005.0	19.2	16.3	90.00	-520.3	-125.7	701.8	669.3	32.54	21.565		
7,700.0	7,005.0	7,653.0	7,005.0	20.2	17.5	90.00	-620.3	-125.7	701.8	666.9	34.96	20.075		
7,800.0	7,005.0	7,753.0	7,005.0	21.3	18.8	90.00	-720.3	-125.7	701.8	664.3	37.55	18.690		
7,900.0	7,005.0	7,853.0	7,005.0	22.5	20.2	90.00	-820.3	-125.7	701.9	661.6	40.28	17.424		
8,000.0	7,005.0	7,953.0	7,005.0	23.8	21.6	90.00	-920.3	-125.7	701.9	658.8	43.12	16.276		
8,100.0	7,005.0	8,053.0	7,005.0	25.2	23.1	90.00	-1,020.3	-125.7	701.9	655.8	46.06	15.240		
8,200.0	7,005.0	8,153.0	7,005.0	26.5	24.6	90.00	-1,120.3	-125.7	701.9	652.8	49.07	14.305		
8,300.0	7,005.0	8,253.0	7,005.0	28.0	26.1	90.00	-1,220.3	-125.7	701.9	649.8	52.14	13.462		
8,400.0	7,005.0	8,353.0	7,005.0	29.4	27.7	90.00	-1,320.3	-125.7	701.9	646.7	55.26	12.702		
8,500.0	7,005.0	8,453.0	7,005.0	30.9	29.2	90.00	-1,420.3	-125.7	702.0	643.5	58.43	12.013		
8,600.0	7,005.0	8,553.0	7,005.0	32.4	30.8	90.00	-1,520.3	-125.7	702.0	640.3	61.64	11.389		
8,700.0	7,005.0	8,653.0	7,005.0	34.0	32.5	90.00	-1,620.3	-125.7	702.0	637.1	64.87	10.821		
8,800.0	7,005.0	8,753.0	7,005.0	35.6	34.1	90.00	-1,720.3	-125.7	702.0	633.9	68.14	10.303		
8,900.0	7,005.0	8,853.0	7,005.0	37.1	35.7	90.00	-1,820.3	-125.7	702.0	630.6	71.42	9.829		
9,000.0	7,005.0	8,953.0	7,005.0	38.7	37.4	90.00	-1,920.3	-125.8	702.0	627.3	74.73	9.394		
9,100.0	7,005.0	9,053.0	7,005.0	40.3	39.0	90.00	-2,020.3	-125.8	702.0	624.0	78.05	8.995		
9,200.0	7,005.0	9,153.0	7,005.0	41.9	40.7	90.00	-2,120.3	-125.8	702.1	620.7	81.39	8.626		
9,300.0	7,005.0	9,253.0	7,005.0	43.6	42.4	90.00	-2,220.3	-125.8	702.1	617.3	84.75	8.285		
9,400.0	7,005.0	9,353.0	7,005.0	45.2	44.1	90.00	-2,320.3	-125.8	702.1	614.0	88.11	7.968		
9,500.0	7,005.0	9,453.0	7,005.0	46.9	45.8	90.00	-2,420.3	-125.8	702.1	610.6	91.49	7.674		
9,600.0	7,005.0	9,553.0	7,005.0	48.5	47.4	90.00	-2,520.3	-125.8	702.1	607.2	94.87	7.401		
9,700.0	7,005.0	9,653.0	7,005.0	50.2	49.1	90.00	-2,620.3	-125.8	702.1	603.9	98.27	7.145		
9,800.0	7,005.0	9,753.0	7,005.0	51.8	50.8	90.00	-2,720.3	-125.8	702.2	600.5	101.67	6.906		
9,900.0	7,005.0	9,853.0	7,005.0	53.5	52.5	90.00	-2,820.3	-125.8	702.2	597.1	105.08	6.682		
10,000.0	7,005.0	9,953.0	7,005.0	55.2	54.3	90.00	-2,920.3	-125.8	702.2	593.7	108.49	6.472		
10,100.0	7,005.0	10,053.0	7,005.0	56.9	56.0	90.00	-3,020.3	-125.8	702.2	590.3	111.91	6.274		
10,200.0	7,005.0	10,153.0	7,005.0	58.6	57.7	90.00	-3,120.3	-125.8	702.2	586.9	115.34	6.088		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

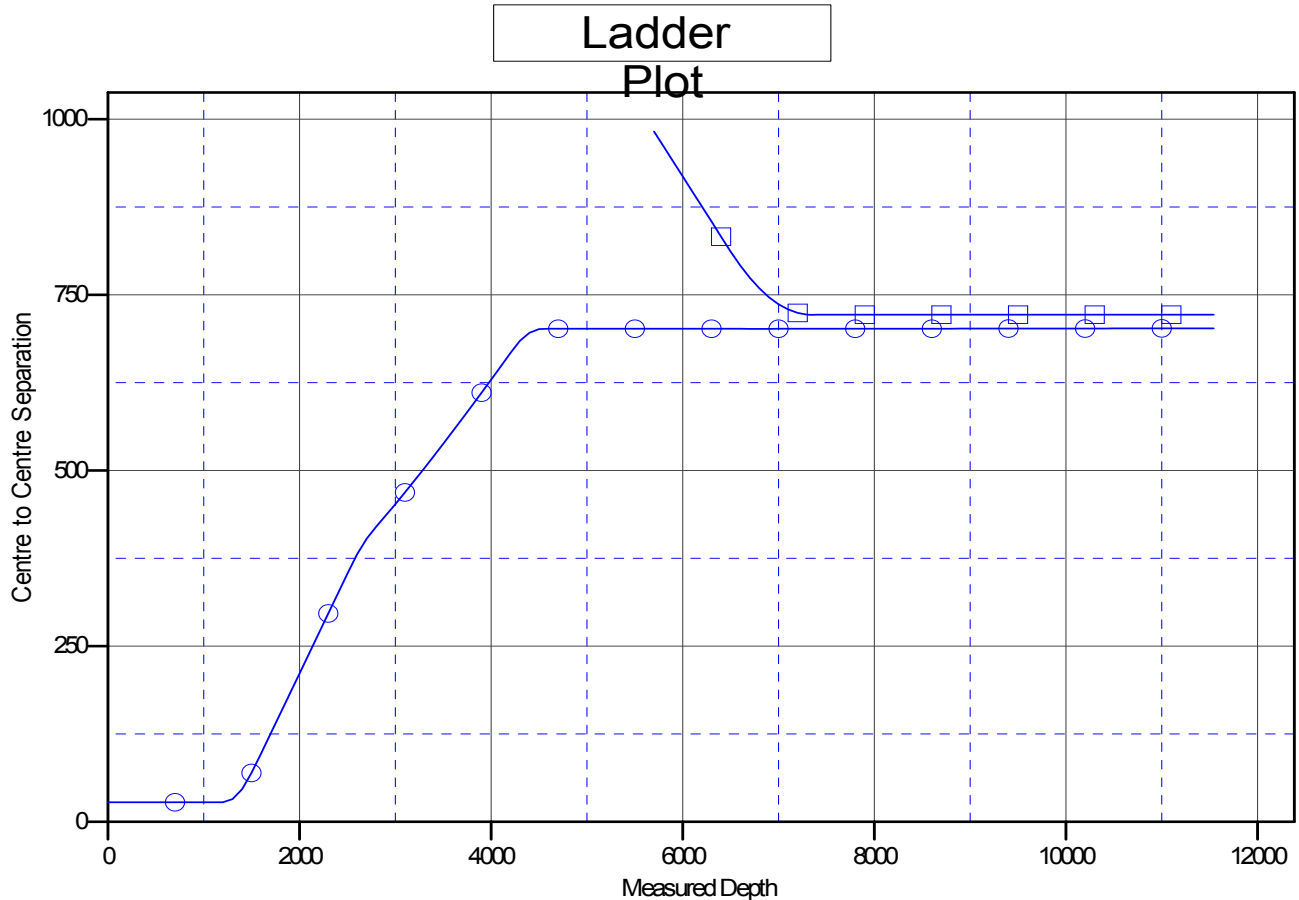
<b>Offset Design</b> NWNE S6-T1N-R64W (Flanigan) - Flanigan 2A-6H - Hz - Plan #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	7,005.0	10,253.0	7,005.0	60.3	59.4	90.00	-3,220.3	-125.8	702.2	583.5	118.77	5.912	
10,400.0	7,005.0	10,353.0	7,005.0	61.9	61.1	90.00	-3,320.3	-125.9	702.2	580.0	122.21	5.746	
10,500.0	7,005.0	10,453.0	7,005.0	63.6	62.8	90.00	-3,420.3	-125.9	702.3	576.6	125.65	5.589	
10,600.0	7,005.0	10,553.0	7,005.0	65.3	64.5	90.00	-3,520.3	-125.9	702.3	573.2	129.09	5.440	
10,700.0	7,005.0	10,653.0	7,005.0	67.0	66.3	90.00	-3,620.3	-125.9	702.3	569.8	132.54	5.299	
10,800.0	7,005.0	10,753.0	7,005.0	68.8	68.0	90.00	-3,720.3	-125.9	702.3	566.3	135.98	5.165	
10,900.0	7,005.0	10,853.0	7,005.0	70.5	69.7	90.00	-3,820.3	-125.9	702.3	562.9	139.44	5.037	
11,000.0	7,005.0	10,953.0	7,005.0	72.2	71.5	90.00	-3,920.3	-125.9	702.3	559.4	142.89	4.915	
11,100.0	7,005.0	11,053.0	7,005.0	73.9	73.2	90.00	-4,020.3	-125.9	702.4	556.0	146.35	4.799	
11,200.0	7,005.0	11,153.0	7,005.0	75.6	74.9	90.00	-4,120.3	-125.9	702.4	552.6	149.81	4.688	
11,300.0	7,005.0	11,253.0	7,005.0	77.3	76.6	90.00	-4,220.3	-125.9	702.4	549.1	153.27	4.583	
11,400.0	7,005.0	11,353.0	7,005.0	79.0	78.4	90.00	-4,320.3	-125.9	702.4	545.7	156.74	4.481	
11,500.0	7,005.0	11,453.0	7,005.0	80.8	80.1	90.00	-4,420.3	-125.9	702.4	542.2	160.20	4.385	
11,542.0	7,005.0	11,495.0	7,005.0	81.5	80.8	90.00	-4,462.3	-125.9	702.4	540.8	161.66	4.345 SF	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Flanigan 2B-6H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Reference Site:</b>	NWNE S6-T1N-R64W (Flanigan)	<b>MD Reference:</b>	KB=13' @ 4949.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Flanigan 2B-6H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB=13' @ 4949.0ft (Original Well Elev)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Flanigan 2B-6H  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.58°



### LEGEND

■ Flanigan 1A-6H, Hz, Plan #1 V0
● Flanigan 2A-6H, Hz, Plan #1 V0